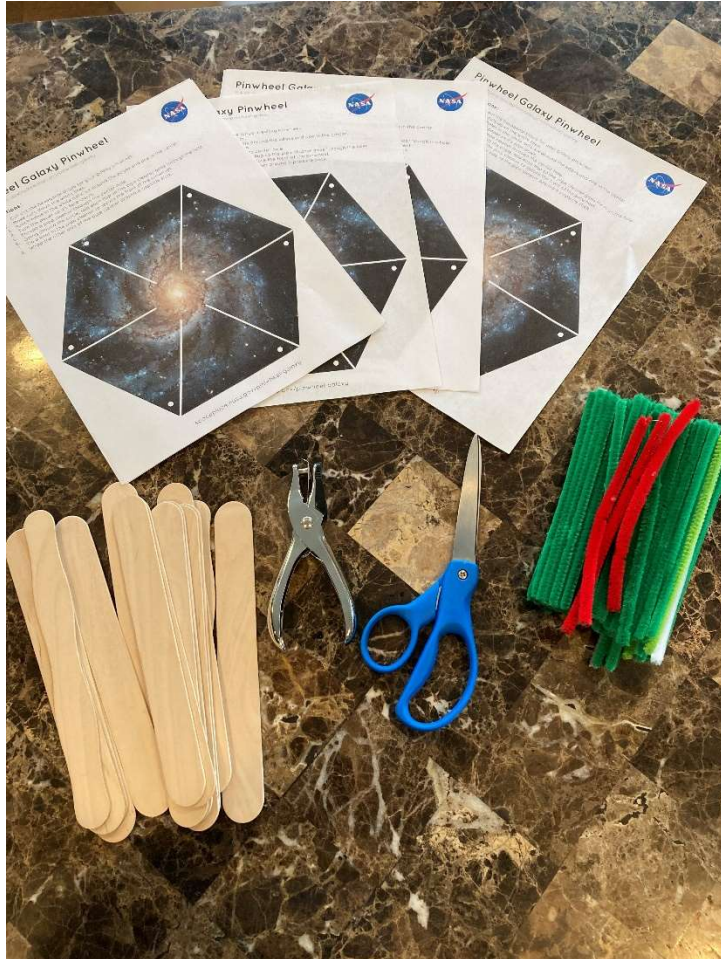


Shopping and Preparation List

Pinwheel Galaxy

Adapt this NASA activity for your needs!

In-Person Library or Outreach Program



Material List (per patron):

- ☐ A copy of the [Pinwheel Galaxy Printout \(PDF\)](#)
- ☐ Chenille stem (also known as a pipe cleaner)
- ☐ A popsicle stick, chopstick, or pencil

Material List (for entire group):

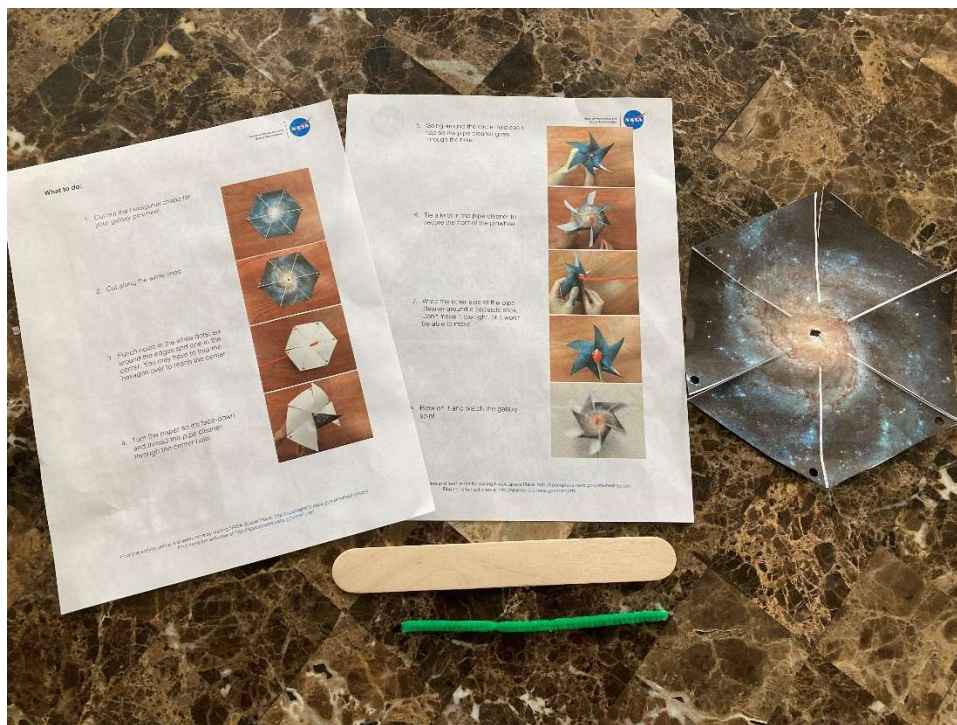
- ☐ Hole punch or push pin (having multiple that patrons can share is helpful)
- ☐ Table for workspace
- ☐ (Optional): Video resources:

- [NASA video: "What is a galaxy?"](#)
- [NASA video: Are All Galaxies the Same?](#)
- ❑ (Optional): Computer, internet, and projector to show the videos

Preparation:

- ❑ Print 20 copies (or however many people you are estimating will attend the program) of the [Pinwheel Galaxy Printout \(PDF\)](#) on cardstock if possible.
 - Consider cutting out some of the templates and punching holes in them before the program for younger patrons.
- ❑ Prepare a workspace with a table, the Pinwheel Galaxy Printouts, and craft materials.
- ❑ (Optional) Set up the computer and projector for patrons to view the NASA videos before or after they make their Pinwheel Galaxy crafts.

Take-and-Make Kits



Materials for each kit:

- ❑ A copy of the [Pinwheel Galaxy PDF](#) (printed on cardstock, if possible)
- ❑ Chenille stem (also known as a pipe cleaner)
- ❑ A popsicle stick, chopstick, or pencil
- ❑ Container to hold supplies, such as a paper bag or large envelope.

Preparation:

- ☐ Download the [Pinwheel Galaxy PDF](#)
- ☐ Print pages 1-3 double-sided on letter paper. Print page 4 single-sided, in color and on cardstock, if possible.
- ☐ Cut out the template on page 4, making cuts down the white lines.
- ☐ Use a hole puncher to punch holes in the six white dots around the edges of the page 4 template and one in the center.
- ☐ Place the printed materials and craft materials in the paper bag or large envelope for patrons to pick up and take home.